38512S2

SEGMENTATION AND DETECTION OF REPRESENTATIVE FRAMES IN VIDEO SEQUENCES

ABSTRACT

A method for organizing a sequence of video frames
5   includes selecting one of the frames in the sequence as
an initial frame in a first portion of a segment of the
sequence and adding further frames in the sequence,
subsequent the initial frame, to the first portion, while
a measure of similarity of each of the added frames to
10 the frames already in the first portion is within a first
predefined bound.   One of the added frames in the first
portion is selected to be a representative frame for the
segment.   A second portion of the segment is generated by
adding still further frames in the sequence, subsequent
15 to the last frame in the first portion, to the second
portion, while the measure of similarity of the added
frame to the representative frame is within a second
predefined bound.   The first and second portions together
are determined to constitute the segment that is
20 represented by the representative frame.

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